

VSR CIVIL INFRA PVT. LTD.

Engineering Project Consultants

VSR /BBMP/YNK/W.No.03-007/2019-20

Date: 05 / 02 /2020

CERTIFICATE

Division : Yelahanka

Sub Division : Yelahanka Satelite Town

Ward Name : Attur

Ward No : 03

Job Code No : 003-20-000072

Name of Work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division

Contractor Name : M/S. KRIDL , Bangalore.

Running Account Bill : 1st and Final Bill

Amount : 1,46,95,429

This is to certify that all the Items of Works have been carried out as per Specifications and Conform to MORTH.

for VSR Civil Infra Pvt Ltd



(Authorized Signatory)

Project Management Consultants

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರ
ಯಲಹಂಕ-ಸುಪರ್ಟೌನ್ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

TEST REPORT

CLIENT	:	Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
AGENCY	:	M/s. Technical Manager (West), KRIDL, Bengaluru
NAME OF THE WORK	:	Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
SAMPLE ID	:	Cement (ACC - OPC 53 Grade)
DATE OF MANUFACTURE	:	November - 2019
DATE OF TESTING	:	16.11.2019 to 18.11.2019
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

SLNo	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	425 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

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- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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 ಸಹಾಯಕ ಅಧೀಕ್ಷಕರ ಅಧೀನದಲ್ಲಿ
 ಯಶವಂತರ ಉಪನಗರ ಉಪವಿಭಾಗ,
 ವಿ.ವಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-106



Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 02.12.2019

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
Name of the work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₁₀

Compressive Strength as on : 7th day

SL.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.11.2019	02.12.2019	8.102	189.6	8.43
2	25.11.2019	02.12.2019	8.121	193.2	8.59
3	25.11.2019	02.12.2019	8.135	202.4	9.00

Note:

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ಸಹಾಯಕ-ತಾಂತ್ರಿಕಾಂಗೀಕರಣ ಅಧೀಯಂತರ
ಯಲಹಂಕರ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೀದಿ-108



Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 23.12.2019

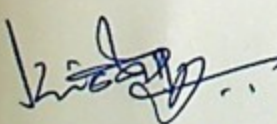
TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
Name of the work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₀
Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.11.2019	23.12.2019	8.154	278.6	12.38
2	25.11.2019	23.12.2019	8.162	281.4	12.51
3	25.11.2019	23.12.2019	8.174	296.3	13.17

Note:

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧೀಯಂತರ
ಯಲಹಂಕರ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಡಿ. ಬೆಂಗಳೂರು-106



Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 23.12.2019

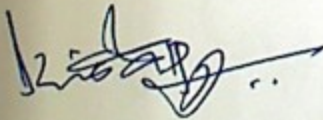
TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
Name of the work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₀
Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.11.2019	23.12.2019	8.165	203.5	9.04
2	25.11.2019	23.12.2019	8.187	215.6	9.58
3	25.11.2019	23.12.2019	8.192	196.5	8.73

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ಸಹಾಯಕ ಅಯುರಗಾರ್ಡ್ ಅಧಿಕಾರಿ
ಯಲಹಂಕಾ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-106



Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 03.12.2019

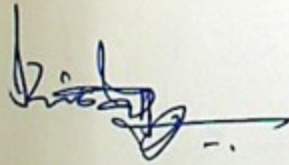
TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
Name of the work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₀
Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.11.2019	03.12.2019	8.115	188.6	8.38
2	26.11.2019	03.12.2019	8.132	192.5	8.56
3	26.11.2019	03.12.2019	8.141	201.3	8.95

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ಯಲಹಂಕಾ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ,ಬಿ,ಎಂ,ಕೆ, ಬೆಂಗಳೂರು-106



Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 25.12.2019

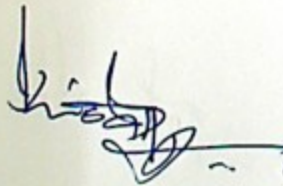
TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
Name of the work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	27.11.2019	25.12.2019	8.174	296.3	13.17
2	27.11.2019	25.12.2019	8.192	288.4	12.82
3	27.11.2019	25.12.2019	8.164	301.4	13.40

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-108



Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 25.12.2019

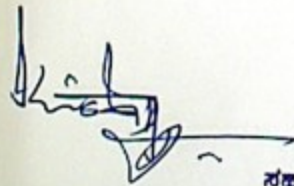
TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
Name of the work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₀
Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	27.11.2019	25.12.2019	8.154	284.3	12.64
2	27.11.2019	25.12.2019	8.187	296.3	13.17
3	27.11.2019	25.12.2019	8.196	293.4	13.04

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ಯುಲಕಂಠ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ವಿ. ಬೆಂಗಳೂರು-108



Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 25.12.2019

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
Name of the work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	27.11.2019	25.12.2019	8.165	196.3	8.72
2	27.11.2019	25.12.2019	8.187	202.3	8.99
3	27.11.2019	25.12.2019	8.192	188.7	8.39

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ಸಹಾಯಕ ಕಾರ್ಯಕರ್ತರ ಅಧಿಕಾರದ
ಯುಜಿಎಸ್ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಕೆ. ಬೆಂಗಳೂರು-106



Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 26.12.2019

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
Name of the work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day

SlNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.11.2019	26.12.2019	8.215	503.1	22.36
2	28.11.2019	26.12.2019	8.232	514.2	22.85
3	28.11.2019	26.12.2019	8.265	525.3	23.35

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧೀಯತೆಗಾಗಿ
ಯಲಹಂಕೆ ಉಪನಗರ ಉಪವಿಭಾಗ
ಇ.ಇ.ಎಂ.ಓ. ಬೆಂಗಳೂರು-106

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 26.12.2019

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
Name of the work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.11.2019	26.12.2019	8.214	513.7	22.83
2	28.11.2019	26.12.2019	8.235	525.6	23.36
3	28.11.2019	26.12.2019	8.261	532.4	23.66

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ಸಹಾಯಕ ಇಂಜಿನಿಯರ್
ಯಲಹಂಕಾ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-106



Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 06.12.2019

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
Name of the work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 7th day

SL.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	29.11.2019	06.12.2019	8.184	352.6	15.67
2	29.11.2019	06.12.2019	8.166	361.4	16.06
3	29.11.2019	06.12.2019	8.193	372.5	16.56

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಕಾರಿಗಳು
ಯಂತ್ರೋಪಕರಣ ಅಭಿವೃದ್ಧಿ
ಇ.ಇ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106



Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 28.12.2019

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
Name of the work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	30.11.2019	28.12.2019	8.215	508.6	22.60
2	30.11.2019	28.12.2019	8.263	518.5	23.04
3	30.11.2019	28.12.2019	8.254	522.3	23.21

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ಸಹಾಯಕ ಅಯುಕ್ತಾಧಿಕಾರಿ
ಯಲಹಂಕಾ ಉಪನಗರ ಸುಪರ್ಟಿವಿಷನ್
ಜಿ.ಐ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-106



Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 30.12.2019

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
Name of the work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	02.12.2019	30.12.2019	8.214	510.3	22.68
2	02.12.2019	30.12.2019	8.235	527.6	23.45
3	02.12.2019	30.12.2019	8.261	543.3	24.15

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ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಯುಜಿಎಂಸಿ ಉಪನಿರ್ದೇಶಕರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106



Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 09.12.2019

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
Name of the work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	02.12.2019	09.12.2019	8.184	348.6	15.49
2	02.12.2019	09.12.2019	8.166	355.4	15.80
3	02.12.2019	09.12.2019	8.193	360.3	16.01

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಕಾರಿಗಳು
ಯಲಹಂಕಾ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಕೆ. ಬೆಂಗಳೂರು-108




KERB STONE (CORE) TEST REPORT

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
 Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
 Name of Work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
 No. of Sample Tested : 03
 Date of Testing : 03.01.2020
 Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.
 Grade of Concrete : M₁₅

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	79.00	0.362	2333.74	1.58	0.960	26.32	13.40	14.48	13.90	17.37
2	50.00	80.00	0.371	2361.86	1.60	0.960	27.54	14.03	15.15	14.54	18.18
3	50.00	81.00	0.378	2376.71	1.62	0.960	25.89	13.19	14.24	13.67	17.09

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.



ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
 ಯುಪಕಂಠ ಉಪನಗರ ಉಪವಿಭಾಗ,
 ಬಿ.ಬಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-10

Job No.:

VSR/BBMP/KRIDL/W.No.03/2019-20

Date 18.11.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
Name of Work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division

Date of Testing 18.11.2019

Material : Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	50	5.00	5.00	95.0	90-100
2.36	139	13.90	18.90	81.1	75-100
1.18	145	14.50	33.40	66.6	55-90
600 Micron	163	16.30	49.70	50.3	35-59
300 Micron	254	25.40	75.10	24.9	8-30
150 Micron	184	18.40	93.50	6.5	0-10

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 ಬಿ.ಬಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-105

Job No.:

CSC/BBMP/KRIDL/W.No.26/2019-20

Date 18.11.2019

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client

: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency

: M/s. Technical Manager (West), KRIDL, Bengaluru

Name of Work

: Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division

Date of Testing

18.11.2019

Material

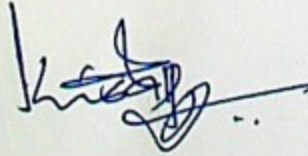
: 40mm Aggregates

Total wt. of aggregates in gms = 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	400	2.67	2.67	97.33	95-100
20	5253	35.02	37.69	62.31	30-70
10	4023	26.82	64.51	35.49	10-35
4.75	4524	30.16	94.67	5.33	0-5

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ಯಶವಂತ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-108

Job No.:

VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 18.11.2019

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
Name of Work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
Date of Testing : 18.11.2019
Material : 20mm Aggregates

Total wt. of aggregates in gms = 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	140	2.8	2.8	97.2	95-100
10	2512	50.2	53.0	47.0	25-55
4.75	2034	40.7	93.7	6.3	0-10

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 ಡಿ.ಡಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-106

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
 Agency : M/s. Technical Manager (West), KRIDL, Bengaluru
 Name of Work : Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
 Sample Identification : 8mm,10mm,12mm Fe 500 TMT Bars
 Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
 Date of test : 20.12.2019

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress (N/mm ²)	Tensile strength (N/mm ²)	Elongation, percent on gauge length
1	Fe 500	8	0.33	536	546	13.5
2	Fe 500	10	0.65	550	561	14
3	Fe 500	12	0.84	565	574	15

Remarks:

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 ಬಿ.ಬಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-106